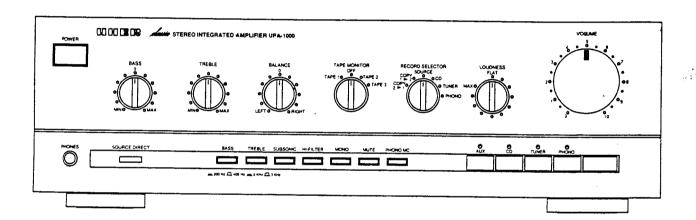
SERVICE MANUAL

UPA-1000

PRE AMPLIFIER



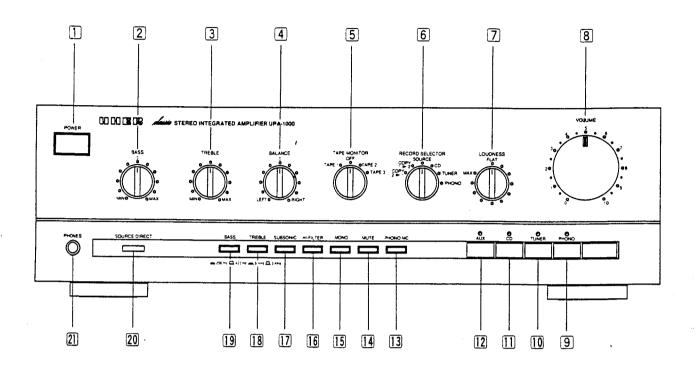
SPECIFICATIONS

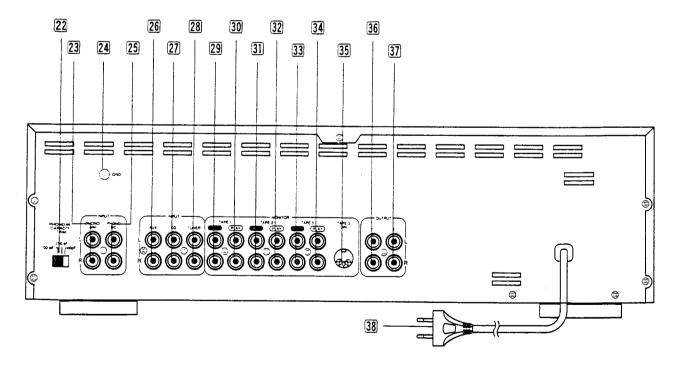
Amplifier Section

Input sensitivity impedance
Signal to noise potential ratio (UA=1V, A valued), Phono MC
Saturation resistivity Phono MC
Tone Cantrol Bass 50Hz (Turnover OFF) + / + 10dB Treble 10Hz
Bass 20Hz Treble 20Hz (Turnover ON)+ / -10dB
Loudness 100Hz++10dB 10KHz++4dB Filters Subsonic
High12dB / oct,(20Hz)

Miscellaneous POWER reguirements POWER consumption	
Dimensions (W×H×D heigh w	vithout footing) ···· 435 × 120 × 250mm
Weight(net)	4.1 kg
• Furnished parts operation instructions	1

FRONT PANEL FEATURES





Designation

INSCRIPTION

1. Mains key

POWER

With this key you switch the unit on or off.

Bass control BASS With this control you set the proportion of low frequencies.

3 Treble control TREBLE
With this control you set the proportion of high frequencies.

4. Balance control

BALANCE

With this control you set the volume ratio between the two stereo channels.

5. Monitor switch

TAPE MONITOR

With this switch you determine from which tape device you want to replay.

6. Recording selector switch

RECORD SELECTOR

With this selector switch you determine which program source you want to record.

Control for aurally compensated volume adjustmentLOUDNESS

When this control is turned out of its FLAT position the highest and lowest frequencies at low volumes are amplfied a bit more than the rest in order to compensate the smaller sensitivity of the human ear for low volumes in these ranges. When turned to the position MAX this effect reaches its maximum, in the position FLAT the function is eliminated completely.

8. Volume control

VOLUME

With this control you set the total volume.

9. Phono key

PHONO

You press this key if you want to replay disks on a record player connected to the outlets 23 or 25.

10. Tuner key

TUNER

For radio reception via a radio receiver (tuner) connected to the outlets 28 you press this key.

· III. CD key

CD

For replay from a compact disk player connected to the outlets 27 you press this key.

12. Key for additional program source AUX

For replay from a program source conneced to the outlets 26 you press this key.

II. Phono selector switch PHONO MC For replay from a record player with a so-called moving

coil system this key must be pressed.

4. Mute key

MUTE

When this key is pressed the volume is reduced considerably.

(Key Way salest one of the modes stered (key

With this key you select one of the modes stereo (key not presseed) or mono (key pressed). respectively.

16. Noise filter

You press this key to suppress disturbances in the upper frequency range (noise etc.).

17. Rrmble filter

SUBSONIC

HI FILTER

For suppressing noises in the lowest frequency ranges (caused by wavy disks etc.) you press this key.

18. Selector switch for treble control

TURNOVER TREBLE

With this switch you select the starting frequency of the treble control.

19. Selector switch for bass control

TURNOVER BASS

With this switch you select the starting frequency of the bass control.

20. On/off switch for sound conrol

SOURCE DIRECT

When this key is pressed the sound controls 2 and 3 are not active.

21. Headphone outlet

PHONES

You can connect stereo headphones provided with a suitable plug to this outlet.

22. Capacity selector switch

PHONO CAPACITIY TRIM

With this switch you can set the unit to the capacity recommened by the manufacturer of your pick-up system.

- 23. Phono outlets MM PHONO MM

 If your record player is equipped with a moving magnet system you connect it to these outlets.
- 24. Ground terminal GND

 If your record player is equipped with a ground cable you connect it to this terminal clamp.
- 25. Phono outlets MC PHONO MC

 If your record player is equipped with a moving coil system you connect it to these outlets.
- 26. Outlets for additional program source AUX
 To these outlets you can connect an additional high
 level program source (for ex. an additional tape or cassette device or a DAT-recorder) for replay.
- 27. CD outlets
 Connect a compact disc player to these outlets.
- 28. Tuner outlets TUNER
 Connect your tuner to these outlets.
- 29. Recording outlets (Tape recorder 1) TAPE 1 REC Connect these outlets to the LINE-input outlets of your tape device (tape or cassette recorder. DAT-recorder).
- 30. Replay outlets (tape device 1) TAPE 1 PLAY Connect these outlets to the LINE-output outlets of your second tape device (tape or cassette recorder, DAT-recorder).

- II. Recording outlets (Tape recorder 2)

 TAPE 2 REC

 Connect these outlets to the LINE-input outlets of your second tape device (tape or cassette recorder, DAT-recorder).
- 32. Replay outlets (tape device 2) TAPE 2 PLAY Connect these outlets to the LINE-output outlets of your second tape device (tape or cassette recorder, DAT-recorder).
- 33. Recording outlets (Tape recorder 3)

 TAPE 3 REC

 Connect these outlets to the LINE-input outlets of your third tape device (tape or cassette recorder, DAT-recorder).
- 34. Replay outlets (tape device 3) TAPE 3 PLAY

 Connect these outlets to the LINE-output outlets of your third tape device (tape or cassette recorder, DAT-recorder).
- 35. DIN-outlet

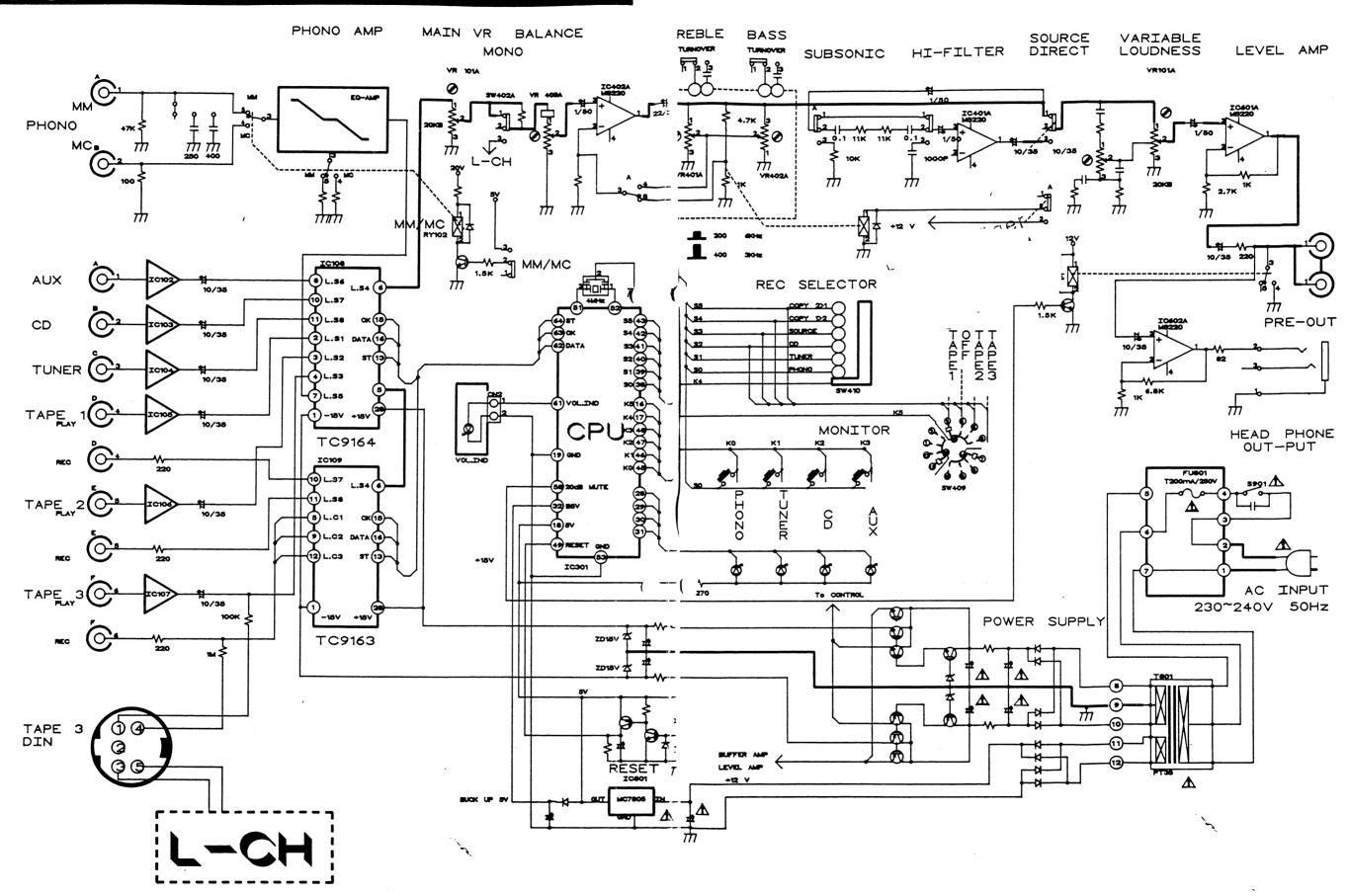
 You can connect a tape device equipped with DIN-outlets to this outlet which is suitable for recording as well as for replay.
- 36. Output outlets 1 OUTPUT 1

 Connect these outlets to the input outlets of your final amplifier.
- 37. Output outlets 2 OUTPUT 2
 To these outlets you can connect a second final amplifier.
- 38. Mains cable POWER IN

 The plug of this cable must be put into a 220V ~

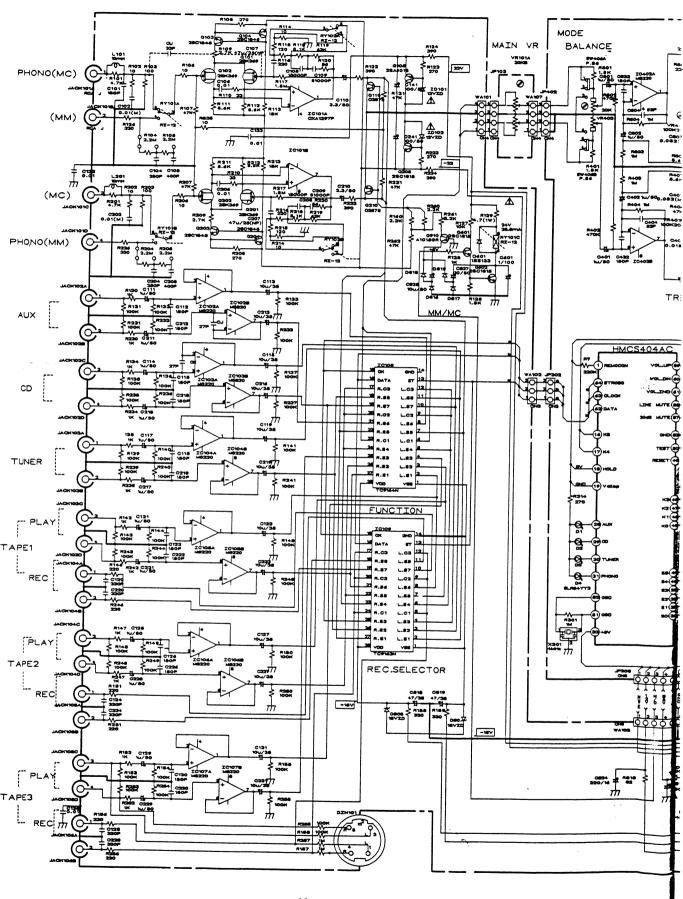
 230V/50 Hz mains socket.

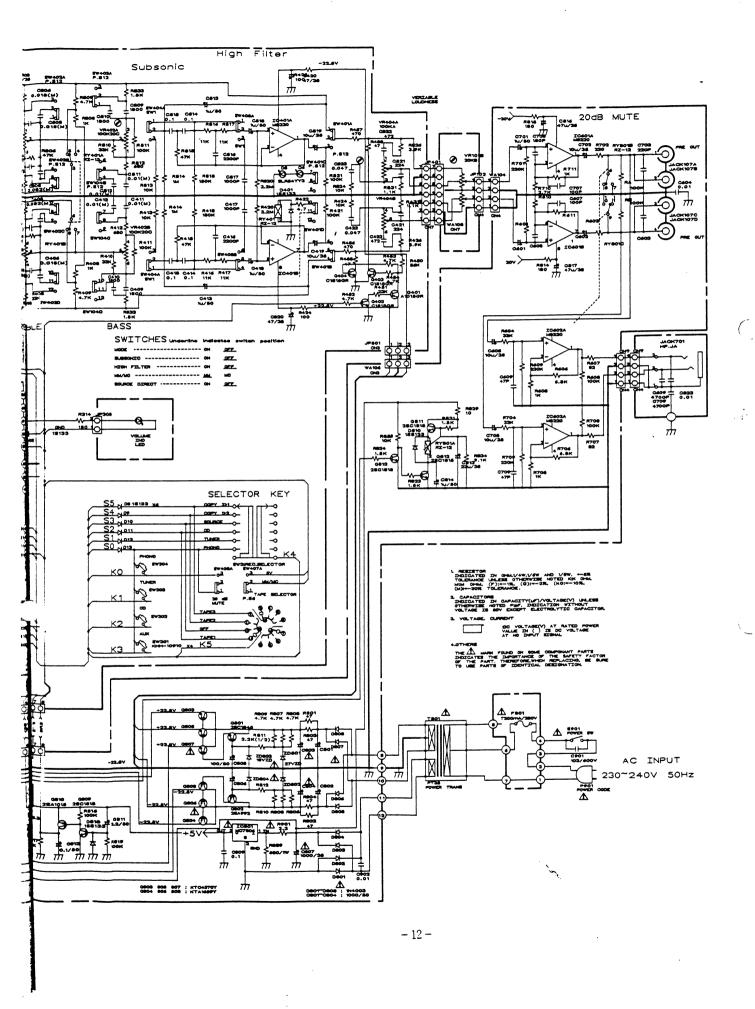
BLOCK DIAGRAM



SCHEMATIC DIAGRAM

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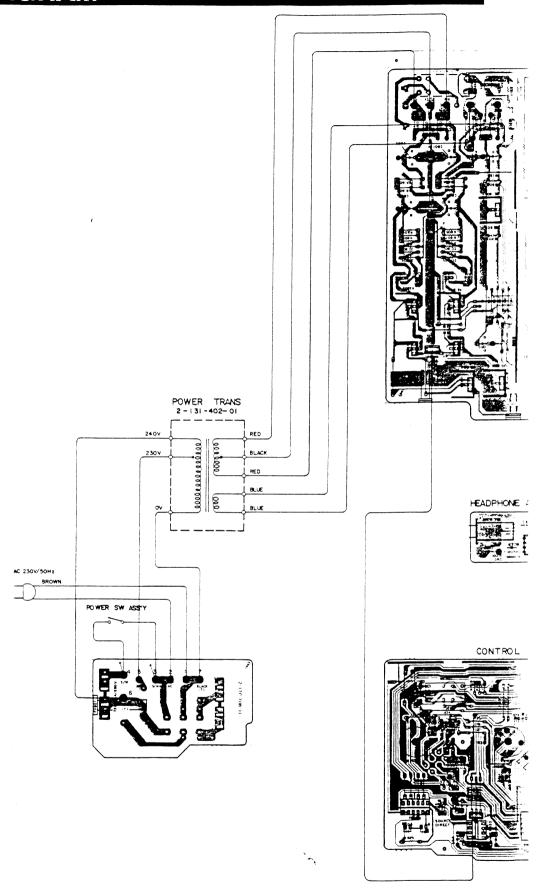


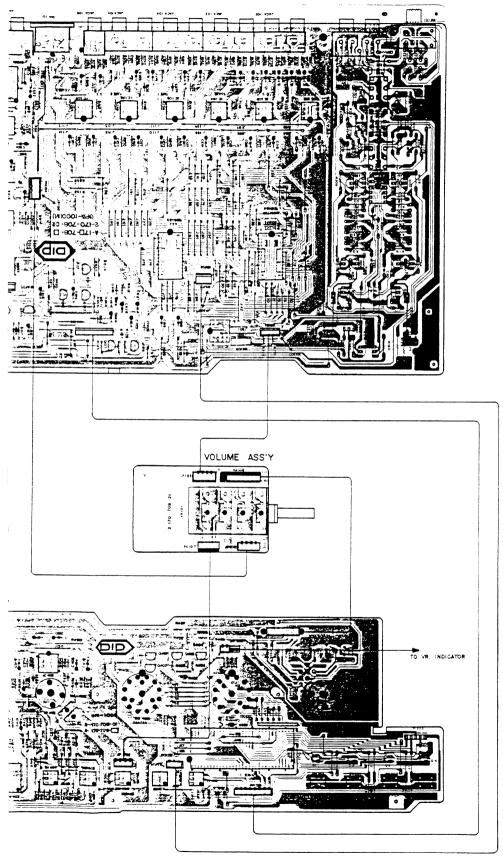


WIRING DIAGRAM

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EXPLODED VIEW

